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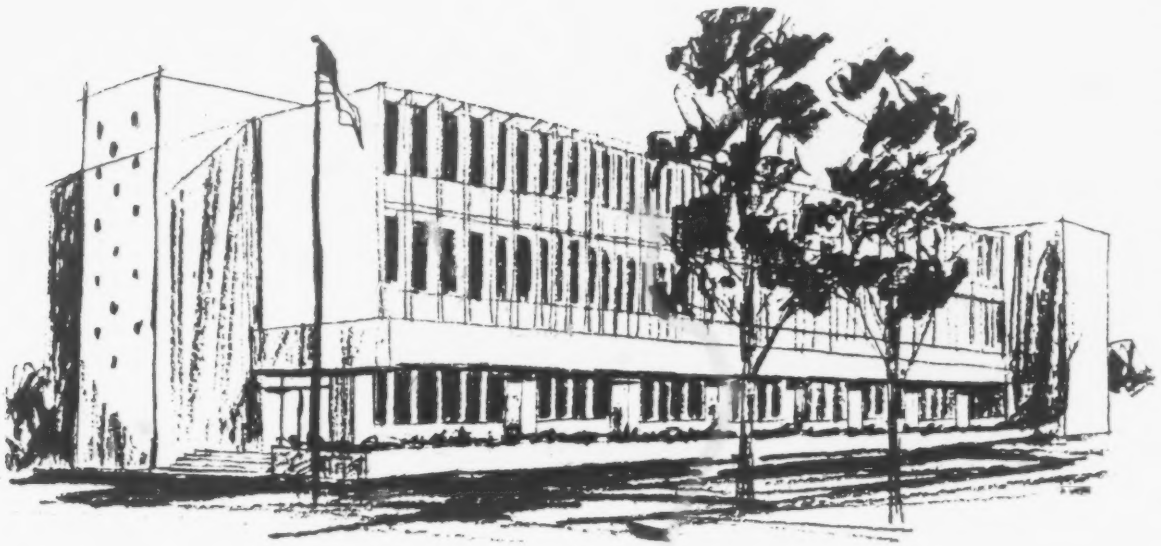
Analysis of the Energy Use of 284 Hotels and Motels

1979



ENERGY TECHNICAL CENTER-
THE HOSPITALITY, LODGING
AN AFFILIATE OF THE AMERICAN HOTEL & MOTEL ASSOCIATION
& TRAVEL RESEARCH FOUNDATION · INC.
CENTURY BUILDING · 84 N.E. LOOP 410 · SAN ANTONIO TEXAS 78216

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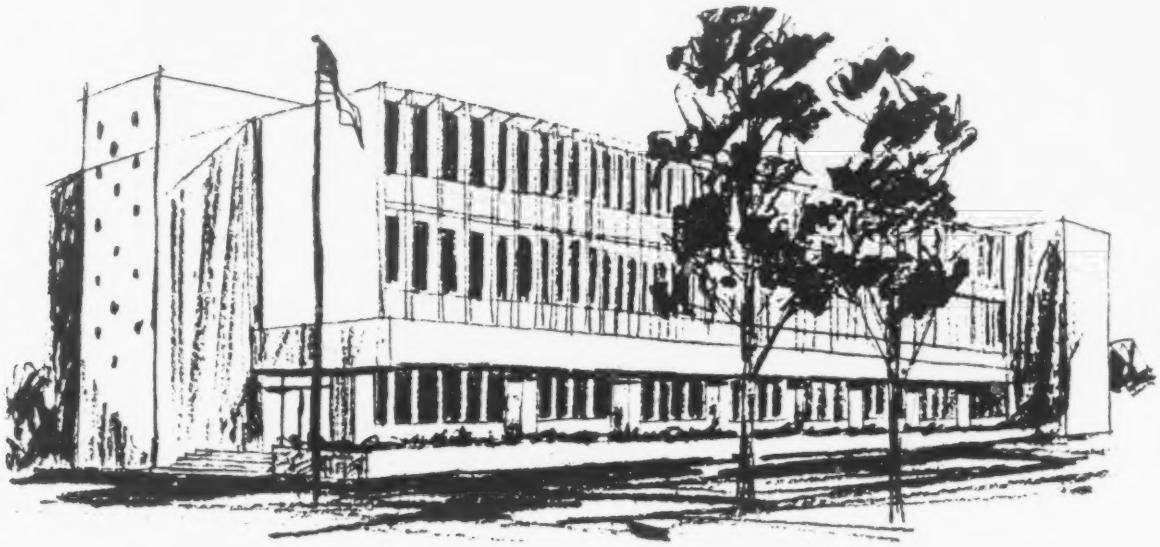

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FOREWORD

This report contains the 1979 energy use data for 284 hotel/motel properties located in 39 states and the District of Columbia. It compares the energy use of the same properties for 1978 and 1979.

The 1979 energy use data of each of the 284 hotels/motels is listed in Appendix A by size (number of guest rooms) and in Appendix B by location (state and region).

The data represents properties with a total of 69,368 guest rooms and a total interior building area of 40,801,935 square feet. The total energy requirement of the 284 properties was 5.87 trillion Btu's - an average of 143,977 Btu/sq ft/yr, down from 153,308 Btu/sq ft in 1978.

It is estimated that the data represents 4.0 percent of the total number of properties, 7.5 percent of the total number of rooms, and 7.5 percent of the estimated total square feet of building area of the U. S. membership of the American Hotel and Motel Association as of December 31, 1979.

	AH&MA U.S. Membership	284 Properties 1979	Percent of AH&MA (U.S.)
Number of Properties	7,150	284	4.0
Number of Rooms	925,200	69,368	7.5
Total sq ft (Est.)	544,000,000	40,801,935	7.5

Since the Energy Technical Center came into being in early 1977, the staff has conducted annual energy use surveys. The continuing analysis of the energy use over the past three years is highly indicative that the industry has made substantial strides in energy conservation and management practices.

The following is a summary of annual energy surveys conducted by the Energy Technical Center for the years 1977, 1978 and 1979:

	1977	1978	1978 versus 1979 (Same Properties)	
No. of Properties	210	327	284	284
No. of Guest Rooms	59,648	84,554	68,911	69,368
Total Sq Ft (Million)	42.6	52.6	40.4	40.8
Total Energy Use (Trillions of Btu's)	7.7	8.4	6.2	5.9
Btu/sq ft/year	181,685	158,736	153,308	143,977
Indicated decrease in Energy Use:				
...1978 versus 1977	---	12.6%	---	---
...1979 versus 1978	---	---	---	6.1%
...1979 versus 1977	---	---	---	20.8%

(In considering the above indicated 6.1% decrease in energy use by 284 hotels and motels, 1979 versus 1978, it should be noted that the American Hotel & Motel Association estimates that the average guest occupancy for 1979 was at 67.8 percent, compared to 65.5 percent in 1978 - an increase of 3.5 percent.)

Even with the hospitality industry's improvement in energy use over the past three years, the cost of energy has increased at an even greater pace. In 1979 the average annual cost of energy per square foot of property was an estimated $1.08. And, in mid-1980 indications are that the average cost of energy will continue to increase at a 15 to 20 percent annual rate. Now, more than ever, increased and effective energy management practices are essential to the continued growth and financial well-being of the hospitality industry.

* * *

ANALYSIS OF THE ENERGY REQUIREMENTS OF 284 HOTELS AND MOTELS - 1979 versus 1978

Introduction

The analyses of the energy requirements of 284 hotels/motels properties contained in this report are considered in two different aspects -

...energy requirements by size of property (number of guest rooms);

...by location (geographical area);

Appendix A and B lists the 1979 energy use data of each of the 284 properties that are the basis of the analyses contained in this report.

Appendix A lists each of the 284 properties by number of guest rooms and compares 1979 with 1978 energy requirements.

No. of Guest Rooms	No. of Properties
Up to 150 Rooms	111
151 to 200 Rooms	65
201 to 300 Rooms	65
301 to 500 Rooms	26
Over 500 Rooms	17

Appendix B lists the 284 properties by state and regional location.

Region	No. of Properties
Northeast	26
Midwest	69
Southeast	77
South Central	53
Rocky Mountain	22
Pacific Coast	37

Location and Size Distribution of 284 Properties

Hotels and motels included in this report are located in 39 states and the District of Columbia. Table 1 is a summary of Appendices A and B and lists the properties by state location and size. Figure 1 graphically illustrates the number of properties by state location.

Diversity of Energy Use

To illustrate the wide diversity in energy use of the 284 properties, the following is an assessment of the percentage, or number of properties, that fell within certain numerical ranges of usage.

	Btu/Sq Ft/Yr
Minimum property	68,743
28 properties (10%) were less than	96,600
57 properties (20%) were less than	109,900
114 properties (40%) were less than	131,700
142 properties (50%) were less than	140,700
Average - All Properties	143,977
170 properties (60%) were less than	149,400
227 properties (80%) were less than	171,200
256 properties (90%) were less than	208,600
Maximum property	256,069

Energy Values

Throughout this report the following values were used for the various energy sources.

Energy Source	Unit	Value in British Thermal Units
Electricity	Kwh	3,412 Btu
Natural Gas	Therm or 100 cu ft	100,000 Btu
Fuel Oil	gallon	140,000 Btu
Propane	gallon	91,500 Btu
Steam	pound	1,000 Btu

Table 1

Location and Size of 284 Hotel/Motel Properties
(1979 Energy Use Data on File at ETC
as of June 1, 1980)

State	Up to 150 Rooms	151 to 200 Rooms	201 to 300 Rooms	301 to 500 Rooms	Over 500 Rooms	Total Properties
Alabama	0	2	3	0	0	5
Alaska	0	0	1	0	0	1
Arizona	5	1	0	0	0	6
Arkansas	2	0	2	0	0	4
California	16	4	6	4	3	33
Colorado	6	2	0	0	0	8
Connecticut	0	0	0	1	0	1
Dist. of Columbia	1	0	1	0	0	2
Florida	5	2	6	2	0	15
Georgia	0	2	0	0	1	3
Hawaii	0	0	1	0	1	2
Idaho	1	0	1	0	0	2
Illinois	0	2	4	4	0	12
Indiana	1	2	1	0	0	4
Iowa	0	0	0	1	0	1
Kentucky	3	3	0	0	0	6
Louisiana	2	2	2	0	1	7
Maryland	1	0	1	0	0	2
Massachusetts	2	0	1	0	1	4
Michigan	3	3	3	0	2	9
Minnesota	2	4	0	3	1	10
Mississippi	1	1	2	0	0	4
Missouri	0	3	4	0	0	7
Nebraska	0	0	0	1	0	1
Nevada	0	1	2	0	2	5
New Hampshire	2	0	0	0	0	2
New Mexico	0	0	1	0	0	1
New York	2	3	3	1	1	10
N. Carolina	2	1	0	0	0	3
Oklahoma	0	1	1	0	0	2
Ohio	10	3	4	3	0	20
Oregon	0	0	0	1	0	1
Pennsylvania	1	0	1	1	2	5
S. Carolina	3	3	1	1	0	8
Tennessee	7	5	8	1	1	22
Texas	24	10	3	2	1	40

Table 1 (Cont'd)

Location and Size of 284 Hotel/Motel Properties
(1979 Energy Use Data on File at ETC
as of June 1, 1980)

State	Up to 150 Rooms	151 to 200 Rooms	201 to 300 Rooms	301 to 500 Rooms	Over 500 Rooms	Total Properties
Virginia	1	1	0	1	0	3
W. Virginia	6	1	1	0	0	8
Wisconsin	2	3	1	0	0	6
Totals	111	65	65	26	17	284

Above 284 properties represent:

40,801,935 sq ft of Building Area
69,368 guest rooms

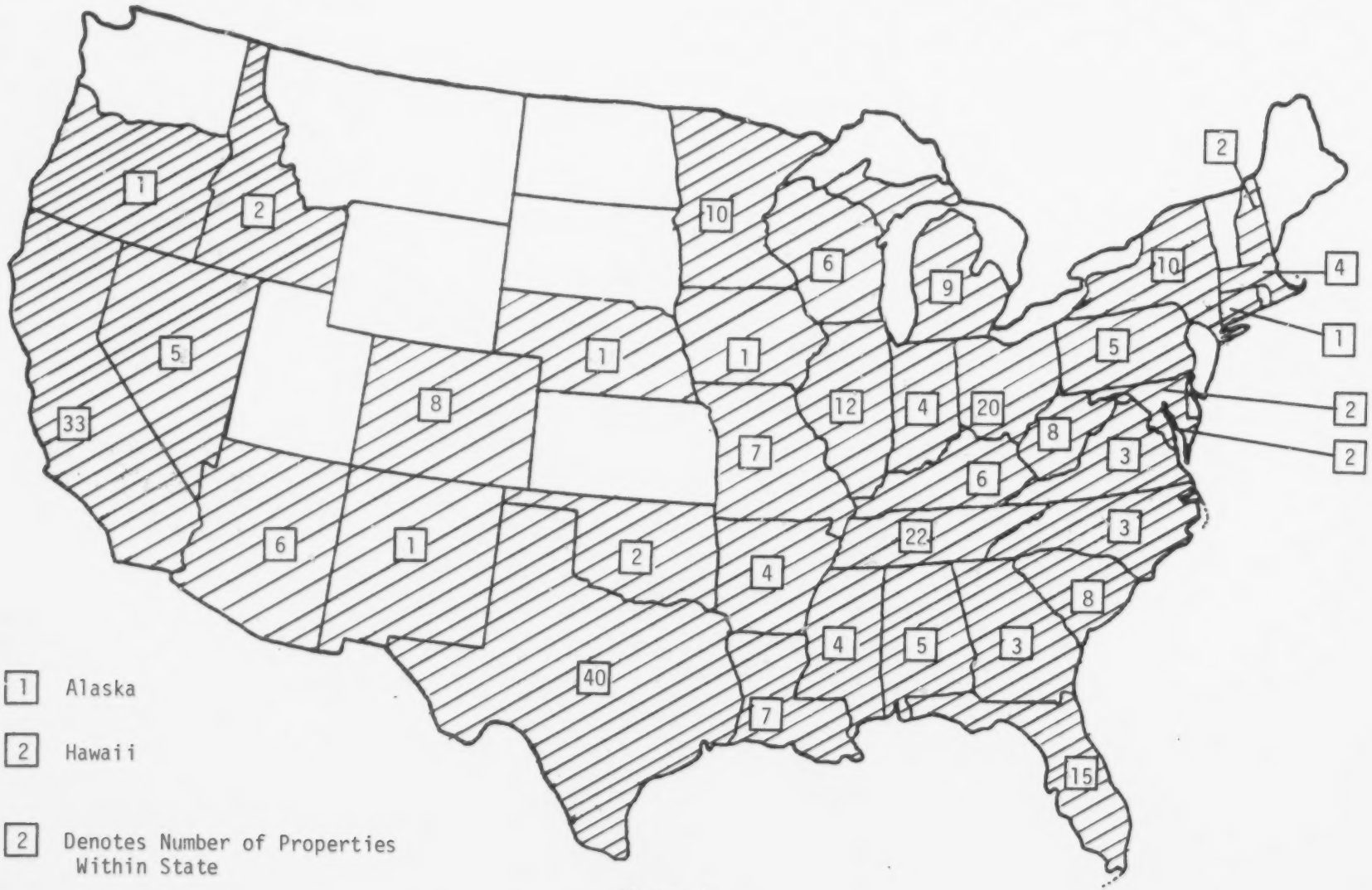

Figure 1

State Location of 284 Properties Surveyed

ANALYSIS OF THE ENERGY REQUIREMENTS OF 284 HOTELS AND MOTELS - 1979 versus 1978

By Number of Guest Rooms

Appendix A presents the 1979 and 1978 energy use data for each of the 284 hotel/motel properties surveyed and is organized by number of guest rooms of each property. These data are the basis for the analyses contained in this section of the report.

Table 2 compares the 1979 with the 1978 energy requirements of the 284 properties included in this survey. The table indicates that the average annual energy use by property size was as follows:

Size of Property	Btu/Sq Ft/Yr 1978	1979
...Up to 150 rooms (111 properties)	152,871	136,685
...151 to 200 rooms (65 properties)	157,572	144,848
...201 to 300 rooms (65 properties)	146,132	137,784
...301 to 500 rooms (26 properties)	139,812	134,784
...Over 500 rooms (17 properties)	162,438	154,643
...Average for 284 properties	153,308	143,977

Percentage-wise, on the basis of number of guest rooms, the distribution of the 284 properties is as follows:

Size of Property	% of Total Properties	% of Total sq ft	% of Total Energy Requirements
Up to 150 Rooms 111 properties	39.1	15.1	14.3
151 to 200 Rooms 65 properties	22.9	14.4	14.5
201 to 300 Rooms 65 properties	22.9	19.3	18.6
301 to 500 Rooms 26 properties	9.1	16.7	15.4
Over 500 Rooms 17 properties	6.0	34.5	37.2
	100.0	100.0	100.0

The above tabulation indicates that 111 properties (up to 150 rooms), or 39.1% of the total properties, used only 14.3% of the total annual energy requirement, while 17 properties (over 500 rooms), or 6% of total properties, used 37.2% of the annual energy requirement.

From Table 2 it is also indicated that as the size (number of guest rooms) of the property increases, the square feet per guest room also increases. This reflects the high ratio of public area to guest room area that is characteristic of the larger hotels.

Size of Property	Sq Ft per Guest Room
Up to 150 rooms	471
151 to 200 rooms	511
201 to 300 rooms	506
301 to 500 rooms	671
Over 500 rooms	737
Average - All Properties	588

Guest Room Distribution by Size of Property

The following tabulation shows the distribution of guest rooms by size of property. Note that those properties over 500 rooms represent only 6.0% of total properties, but account for 27.5% of total rooms. On the other hand, those properties of less than 150 rooms represent 39.1% of total properties but only 18.8% of total rooms.

Size and No. of Properties	No. of Rooms Represented	Percent of Total Rooms	Average No. of rooms Per Property
Up to 150 rooms (111 properties)	13,070	18.8	118
151 to 200 rooms (65 properties)	11,484	16.6	177
201 to 300 rooms (65 properties)	15,526	22.4	239
301 to 500 rooms (26 properties)	10,172	14.7	391
Over 500 rooms (17 properties)	19,116	27.5	1,124
284 Properties	69,368	100.0	244

Use of Electricity By Size of Property

Table 3 indicates that the use of electricity of the 284 properties in 1979 ranged from 18.8 Kwh/sq ft/yr for properties "301 to 500 rooms" to 21.0 Kwh/sq ft for properties "201 to 300 rooms." The average for all properties was 19.6 Kwh/sq ft/yr. (67,067 Btu's/sq ft)

The energy use data of 10 all-electric properties are included in Table 3 (Use of Electricity). The 10 all-electric properties averaged 33.3 Kwh/sq ft versus 19.6 Kwh/sq ft for the 284 properties. The use of electricity by the 10 all-electric properties is shown separately in Table 4.

Use of Fossil Fuels - By Size of Property

Table 5 lists fossil fuel use by size of property (number of guest rooms). The 284 properties surveyed had an average requirement in 1979 of 76,910 Btu's/sq ft versus 83,633 Btu's/sq ft in 1978; a decrease of 8 percent.

Fossil fuels used included natural gas, fuel oil, purchased steam and propane. Natural gas represented 87.6% of the fossil fuel requirements.

Fossil Fuel	Total Btu's (Millions)	Percent of Total Fossil Fuel
Natural Gas	2,748,942	87.6%
Steam (Purchased)	229,079	7.3%
Fuel Oil	144,351	4.6%
Propane	15,690	0.5%
Total	3,138,062	100.0%

Energy Sources

The mix of energy requirements (electricity and fossil fuels) in 1979 by number of guest rooms of the 284 properties analyzed (Table 6) shows that the smaller properties (up to 150 rooms) used 50.1% electricity and 49.9% fossil fuel - mainly natural gas. The large properties (over 500 rooms) had a mix of 41.7% electricity and 58.3% fossil fuels. The average for all properties was 46.6% electricity, 53.4% fossil fuels.

Table 2

Annual Energy Requirements
(1979 versus 1978)
284 Hotels/Motels

By Number of Guest Rooms

	Total Sq Ft		Total Btu's (Millions)		Average Btu Sq Ft		Decrease
	1978 vs	1979	1978 vs	1979	1978 vs	1979	1979 1978
Up to 150 Rooms (111 properties)	6,072,249	6,155,505	928,269	841,368	152,871	136,685	-10.6%
151 to 200 Rooms (65 properties)	5,768,769	5,867,640	908,997	849,914	157,572	144,848	- 8.1%
201 to 300 Rooms (65 properties)	7,863,100	7,857,101	1,149,050	1,083,494	146,132	137,900	- 5.6%
301 to 500 Rooms (26 properties)	6,829,399	6,829,429	954,832	920,497	139,812	134,784	- 3.6%
Over 500 Rooms (17 properties)	13,873,836	14,092,260	2,253,640	2,179,269	162,438	154,643	- 4.8%
Total - 284 Properties	40,407,353	40,801,935	6,194,788	5,874,542	153,308	143,977	- 6.1%

Table 3

Use of Electricity
(1979 versus 1978)
284 Hotels/Motels
By Size of Property

	Total Square Feet		Total Electric (MM Btu)		Btu/Sq Ft/Yr		Kwh/Sq Ft/Yr	
	1978	1979	1978	1979	1978	1979	1978	1979
Up to 150 Rooms (111 properties)	6,072,249	6,155,505	451,679	421,586	74,384	69,489	21.8	20.1
151 to 200 Rooms (65 properties)	5,768,769	5,867,640	426,052	406,205	73,855	69,228	21.6	20.3
201 to 300 Rooms (65 properties)	7,863,100	7,857,101	601,185	561,678	76,456	71,487	22.4	21.0
301 to 500 Rooms (26 properties)	6,829,399	6,829,429	447,785	438,731	65,567	64,241	19.2	18.8
Over 500 Rooms (17 properties)	13,873,836	14,092,260	888,702	908,280	64,056	64,452	18.8	18.9
All Properties	40,407,353	40,801,935	2,815,403	2,736,480	69,676	67,067	20.4	19.6

Table 4

Energy Use
All-Electric Hotels/Motels
(Included in 1979 Energy Use Survey)

	Total Sq Ft	Electricity (MM Btu) 1978	Electricity (MM Btu) 1979	Btu/Sq Ft/Yr 1978	Btu/Sq Ft/Yr 1979	Kwh/Sq Ft/Yr 1978	Kwh/Sq Ft/Yr 1979
Up to 150 Rooms (4 properties)	216,179	28,260	28,774	130,725	133,103	38.3	39.0
151 to 200 Rooms (2 properties)	169,195	20,897	20,861	123,508	123,296	36.2	36.1
201 to 300 Rooms (3 properties)	438,479	53,356	48,154	121,684	109,821	35.7	32.2
301 to 500 Rooms (1 property)	205,703	23,188	19,352	112,725	94,081	33.0	27.6
Total/Average (10 properties)	1,029,556	125,701	117,141	122,092	113,778	35.8	33.3

Table 5

Use of Fossil Fuels
(1978 versus 1979)
284 Hotels/Motels

(By Size of Property)

	Total Sq Ft		Total (MM Btu)		Btu/Sq Ft/Yr		Decrease
	1978	1979	1978	1979	1978	1979	1979 vs 1978
Up to 150 Rooms (111 properties)	6,072,249	6,155,505	476,590	419,782	78,487	68,196	-13.1%
151 to 200 Rooms (65 properties)	5,768,769	5,867,640	482,945	443,709	83,717	75,636	- 9.7%
201 to 300 Rooms (65 properties)	7,863,100	7,857,101	547,865	521,816	69,675	66,413	- 4.7%
301 to 500 Rooms (26 properties)	6,829,399	6,829,429	507,047	481,766	74,245	70,543	- 5.0%
Over 500 Rooms (17 properties)	13,873,836	14,092,260	1,364,938	1,270,989	98,382	90,191	- 8.3%
284 Properties	40,407,353	40,801,935	3,379,385	3,138,062	83,633	76,910	- 8.0%

Table 6

Energy Source of 284 Hotels/Motels
1979 versus 1978

(By Size of Property)

	Percent Electricity		Percent Fossil Fuel	
	1978	1979	1978	1979
Up to 150 Rooms (111 properties)	48.7	50.1	51.3	49.9
151 to 200 Rooms (65 properties)	46.9	47.8	53.1	52.2
201 to 300 Rooms (65 properties)	52.3	51.8	47.7	48.2
301 to 500 Rooms (26 properties)	46.9	47.7	53.1	52.3
Over 500 Rooms (17 properties)	39.4	41.7	60.6	58.3
Average - 284 Properties	45.4	46.6	54.6	53.4

ANALYSIS OF THE ENERGY REQUIREMENTS OF 284 HOTELS AND MOTELS...

By Geographical Location

Appendix B lists the 1979 energy use data of 284 individual hotels and motels by geographical (state) location. These data serve as the source for the following analyses based on location of hotel/motel properties.

For the purpose of this survey and analysis, six major geographical areas were used. The six areas include the following states.

Northeastern States

Maine	New York
New Hampshire	New Jersey
Vermont	Pennsylvania
Massachusetts	Maryland
Connecticut	Delaware
Rhode Island	District of Columbia

Midwestern States

Ohio	Iowa
Indiana	Kansas
Illinois	North Dakota
Wisconsin	South Dakota
Michigan	Nebraska
Minnesota	Missouri

Southeastern States

Kentucky	South Carolina
West Virginia	Mississippi
Virginia	Alabama
Tennessee	Georgia
North Carolina	Florida

South Central States

Oklahoma	Louisiana
Arkansas	Texas

Rocky Mountain States

Montana	Arizona
Wyoming	Nevada
Colorado	Utah
New Mexico	Idaho

Pacific Coast States

California	Hawaii
Oregon	Alaska
Washington	

Annual Energy Requirements by Geographical Area

Table 7 is a summary of energy use in 1979 of 284 properties by regional location. The Midwest with 164,319 Btu/sq ft had the highest annual energy use, while the 115,330 Btu/sq ft average for the Pacific Coast locations was the lowest.

Region	Btu/sq ft/yr
Northeast (26 properties)	142,771
Southeast (77 properties)	134,881
Midwest (69 properties)	164,319
South Central (53 properties)	151,836
Rocky Mountain (22 properties)	137,515
Pacific Coast (37 properties)	115,330
Average - 284 properties	143,977

Table 7 also indicates that percentage-wise, on the basis of regional location, the distribution of the 284 properties is as follows:

Region	% of Total Properties	% of Total sq ft	% of Total Energy Use
Northeast	9.2	15.5	15.4
Southeast	27.1	20.6	19.3
Midwest	24.3	27.3	31.2
South Central	18.7	12.9	13.4
Rocky Mountain	7.7	10.6	10.1
Pacific Coast	13.0	13.1	10.6

Use of Electricity by Region

Table 8 shows that the annual use of electricity of the 284 properties ranged from 16.3 Kwh/sq ft in the Pacific Coast Region to 24.6 Kwh/sq ft in the South Central. The average for all properties was 19.7 Kwh/sq ft (67,067 Btu/sq ft).

Region	Use of Electricity	
	Btu/sq ft	Kwh/sq ft
Northeast (26 properties)	55,851	16.4
Southeast (77 properties)	77,379	22.7
Midwest (69 properties)	61,524	18.0
South Central (53 properties)	83,795	24.6
Rocky Mountain (22 properties)	71,914	21.1
Pacific Coast (37 properties)	55,456	16.3
Average - 284 properties	67,067	19.7

Use of Fossil Fuels by Region

Table 9 indicates that the region with the highest annual requirement for fossil fuels was the Midwest with 102,795 Btu/sq ft, followed by the Northeast with 86,920 Btu/sq ft. The Pacific Coast region had the lowest requirement - 59,874 Btu/sq ft. The average for all properties was 76,910 Btu/sq ft.

Region	Use of Fossil Fuels	
	Btu/sq ft	Equivalent Therms Natural Gas/sq ft
Northeast (26 properties)	86,920	0.87
Southeast (77 properties)	57,502	0.58
Midwest (69 properties)	102,795	1.03
South Central (53 properties)	67,591	0.68
Rocky Mountain (22 properties)	65,601	0.66
Pacific Coast (37 properties)	59,874	0.60
Average - 284 properties	76,910	0.77

Energy Sources

In Table 10, the Southeast is shown to have the highest annual requirement for electricity - 57.4% of total use. The Midwest properties had the lowest annual requirement for electricity (37.4%) and the highest requirement for fossil fuels (62.6%). The Pacific Coast region had virtually an equal requirement for both electricity (48.1%) and fossil fuels (51.9%). The average for all properties was 46.6% electricity and 53.4% fossil fuels.

Table 7

Summary of
Energy Use by Geographic Area
1979

284 Hotels/Motels

	Total Sq Ft	Total Energy (MM Btu)			Btu/Sq Ft/Yr			Percent of Total Energy	
		Elec	Fossil Fuel	Total	Elec	Fossil Fuel	Total	Elec	Fossil Fuel
Northeast	6,340,231	354,107	551,097	905,204	55,850	86,921	142,771	39.1	60.9
Southeast	8,418,893	651,444	484,102	1,135,546	77,379	57,502	134,881	57.4	42.6
Midwest	11,149,277	685,952	1,146,089	1,832,041	61,524	102,795	164,319	37.4	62.6
South Central	5,213,997	436,907	352,417	789,324	83,795	67,591	151,386	55.4	44.6
Rocky Mountain	4,330,930	311,455	284,117	595,572	71,914	65,601	137,515	52.3	47.7
Pacific Coast	5,348,607	296,615	320,240	616,855	55,456	59,874	115,330	48.1	51.9
All Regions (284 Properties)	40,801,935	2,736,480	3,138,062	5,874,542	67,067	76,910	143,977	46.6	53.4

Table 8

Use of Electricity - 1979
284 Hotels/Motels
By Geographical Area

	Total Sq Ft	Btu's Electricity (Millions)	Btu's Sq Ft	Kwh Sq Ft
Northeast (26 properties)	6,340,231	354,107	55,851	16.4
Southeast (77 properties)	8,418,893	651,444	77,379	22.7
Midwest (69 properties)	11,149,277	685,952	61,524	18.0
South Central (53 properties)	5,213,997	436,907	83,795	24.6
Rocky Mountain (22 properties)	4,330,930	311,455	71,914	21.1
Pacific Coast (37 properties)	5,348,607	296,615	55,456	16.3
284 Properties	40,801,935	2,736,480	67,067	19.7

Table 9

Use of Fossil Fuels - 1979
284 Hotels/Motels
By Geographical Area

	Total Sq Ft	Btu's Fossil Fuels (Millions)	Btu's Sq Ft	Therms[1] Sq Ft
Northeast (26 properties)	6,340,231	551,097	86,920	0.87
Southeast (77 properties)	8,418,893	484,102	57,502	0.58
Midwest (69 properties)	11,149,277	1,146,084	102,795	1.03
South Central (53 properties)	5,213,997	352,417	67,591	0.68
Rocky Mountain (22 properties)	4,330,930	284,117	65,601	0.66
Pacific Coast (37 properties)	5,348,607	320,240	59,874	0.60
284 Properties	40,801,935	3,138,062	76,910	0.77

Note:
1 Equivalent therms (100,000 Btu) of natural gas

Table 10

Sources of Energy (1979)
284 Hotels/Motels
By Geographical Area

	Btu's Electricity (Millions)	% of Annual Use	Btu's Fossil Fuels (Millions)	% of Annual Use
Northeast (26 properties)	354,107	39.1	551,097	60.9
Southeast (77 properties)	651,444	57.4	484,102	42.6
Midwest (69 properties)	685,952	37.4	1,146,089	62.6
South Central (53 properties)	436,907	55.4	352,417	44.6
Rocky Mountain (22 properties)	311,455	52.3	284,117	47.7
Pacific Coast (37 properties)	296,615	48.1	320,240	51.9
284 Properties	2,736,480	46.6	3,138,062	53.4

APPENDIX A

ANNUAL ENERGY REQUIREMENTS
OF
284 HOTELS/MOTELS - 1979
WITH
COMPARISON TO 1978 ENERGY USE

BY SIZE OF PROPERTY

Appendix A-1: Up to 150 Rooms (111 properties)

Appendix A-2: 151 to 200 Rooms (65 properties)

Appendix A-3: 201 to 300 Rooms (65 properties)

Appendix A-4: 301 to 500 Rooms (26 properties)

Appendix A-5: Over 500 Rooms (17 properties)

Appendix A-1

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

111 Selected Properties
Up to 150 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft) 1978	Electricity (Kwh/Sq Ft) 1979	Electricity (Btu/Sq Ft) 1978	Electricity (Btu/Sq Ft) 1979	Fossil Fuel (Btu/Sq Ft) 1978	Fossil Fuel (Btu/Sq Ft) 1979	Total Btu/Sq Ft 1978	Total Btu/Sq Ft 1979
Arizona	67,924	13.58	13.04	46,335	44,511	37,059	35,973	83,384	80,483
Arizona	64,695	29.21	27.60	99,672	94,198	45,614	41,668	145,286	135,865
Arizona	57,387	24.42	17.67	83,345	60,282	120,045	116,402	203,390	176,685
Arizona	57,714	20.50	20.36	69,956	69,465	77,520	94,776	147,476	164,240
Arizona	71,426	22.51	25.10	76,804	85,664	70,098	72,720	146,902	158,384
Arkansas	43,810	30.76	27.53	104,953	93,964	82,150	79,441	187,103	173,404
Arkansas	41,860	18.14	19.52	61,878	66,602	4,894	40,981	66,772	107,583
California	28,966	16.06	17.00	54,797	58,022	45,117	39,892	99,914	97,915
California	29,800	12.25	14.62	41,797	49,916	51,138	29,748	92,935	79,664
California	29,797	8.03	10.30	27,398	35,397	39,618	33,345	67,016	68,743
California	29,975	10.95	9.80	37,361	33,520	46,746	51,786	84,107	85,306
California	31,147	19.53	19.31	66,636	65,912	28,972	24,817	95,608	90,725
California	45,620	9.64	10.02	32,892	34,217	41,782	37,154	74,674	71,371
California	46,986	11.43	12.07	38,999	41,181	44,724	47,618	83,723	88,799
California	42,931	14.43	12.65	49,235	43,170	55,016	53,800	104,251	96,970
California	39,405	11.76	11.38	40,125	38,856	38,658	31,077	78,783	69,933
California	48,821	12.30	11.17	41,968	38,139	35,505	39,139	77,473	77,273
California	70,883	14.65	14.32	50,017	48,887	54,315	57,953	104,332	106,840
California	63,898	21.51	19.83	73,400	67,687	49,094	46,976	122,494	114,663
California	66,665	17.33	17.14	59,161	58,489	34,980	41,161	94,141	99,650
California	55,684	11.82	13.44	40,330	45,874	43,222	42,626	83,552	88,500
California	59,732	18.28	17.65	62,388	60,240	51,564	48,064	113,952	108,304
California	76,227	13.79	12.95	47,066	44,202	39,763	40,145	86,829	84,348
Colorado	30,570	21.19	18.80	72,300	64,198	79,221	71,445	151,521	135,644

Appendix A-1 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

111 Selected Properties
Up to 150 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Colorado	89,718	10.98	11.12	37,464	37,954	35,744	32,617	73,208	70,562
Colorado	46,704	17.39	21.98	59,335	75,013	55,794	52,826	115,129	127,839
Colorado	61,762	12.37	14.42	42,206	49,206	157,229	161,138	199,435	210,344
Colorado	41,860	20.13	21.11	68,677	72,037	57,582	73,817	126,259	145,854
Colorado	48,588	17.03	19.01	58,096	64,893	61,107	63,976	119,203	128,868
Dist of Columbia	65,375	36.02	36.09	122,941	123,145	-0-	-0-	122,941	123,145
Florida	55,448	23.08	26.50	78,749	90,433	50,736	41,815	129,485	132,249
Florida	59,247	23.33	23.40	79,602	79,853	15,101	13,926	94,703	93,779
Florida	48,250	38.70	34.15	132,044	116,531	11,532	10,696	143,576	127,226
Florida	145,400	31.33	19.15	106,883	65,365	88,150	56,703	195,033	122,069
Florida	51,888	25.38	24.42	86,597	84,136	64,753	62,507	151,350	146,643
Idaho	61,972	23.79	21.58	81,171	73,665	109,873	70,632	191,043	144,297
Indiana	138,598	20.31	24.79	69,292	84,595	89,431	82,842	158,723	167,437
Kentucky	37,928	33.37	30.43	113,858	103,838	99,895	88,457	213,753	192,295
Kentucky	48,961	32.04	31.02	109,313	105,842	-0-	-0-	109,313	105,842
Kentucky	55,151	31.31	23.83	106,830	81,326	37,903	64,166	144,733	145,492
Louisiana	37,749	27.71	23.16	94,547	79,053	52,339	58,345	146,935	137,398
Louisiana	55,843	49.58	50.02	169,167	170,675	-0-	-0-	169,167	170,675
Maryland	54,274	20.86	19.38	71,158	66,142	126,027	98,463	197,185	164,605
Massachusetts	51,880	12.44	12.06	42,445	41,174	142,327	130,653	184,772	171,827
Massachusetts	59,516	20.56	20.24	70,165	69,080	101,485	100,091	171,650	169,171
Michigan	42,030	15.32	14.07	52,272	48,026	171,490	182,912	223,762	230,938
Michigan	59,268	20.64	18.76	70,413	64,039	136,814	143,195	207,232	207,234
Michigan	77,110	20.40	18.60	69,616	63,483	86,370	101,622	155,986	165,105

Appendix A-1 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

111 Selected Properties
Up to 150 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Minnesota	69,189	14.36	14.32	48,996	48,872	128,759	114,765	177,755	163,637
Minnesota	61,020	15.47	15.30	52,784	52,257	178,864	191,654	231,648	243,911
Mississippi	37,749	19.27	21.15	65,755	72,173	41,743	42,469	107,498	114,643
New Hampshire	103,692	7.90	7.22	26,837	24,653	86,631	83,034	133,468	107,656
New Hampshire	69,088	16.12	15.00	54,992	51,184	57,882	59,880	112,874	111,064
New York	84,484	11.99	13.60	40,903	46,408	65,764	68,438	106,667	114,847
New York	87,130	15.32	13.68	52,267	46,678	96,074	85,432	148,341	132,110
North Carolina	44,780	24.60	22.51	83,936	76,812	127,937	129,901	211,873	206,713
North Carolina	53,050	20.34	18.78	69,425	64,085	141,923	139,710	211,348	203,795
Ohio	54,735	25.05	23.29	85,471	79,468	86,692	77,458	172,163	156,926
Ohio	48,860	29.33	24.44	100,074	83,394	103,417	82,022	203,491	165,416
Ohio	57,200	29.04	21.98	99,084	74,995	57,614	46,500	156,698	121,495
Ohio	95,278	23.17	22.02	79,056	75,139	61,869	64,317	140,925	139,456
Ohio	61,575	20.39	18.75	69,571	63,990	70,965	68,095	140,536	132,086
Ohio	53,818	12.85	11.83	43,840	40,347	180,144	180,209	223,984	220,556
Ohio	55,262	22.52	19.05	76,838	65,026	149,417	136,448	226,255	201,474
Ohio	86,139	11.38	10.46	38,822	35,705	117,589	120,341	156,411	156,047
Ohio	75,884	23.08	22.80	78,753	77,778	88,859	84,934	167,612	162,712
Ohio	72,000	40.29	34.95	137,469	119,264	54,278	39,976	191,747	159,240
Pennsylvania	72,713	22.63	20.93	80,616	71,423	75,172	67,223	155,788	138,646
South Carolina	36,200	31.25	28.30	106,625	96,563	17,547	14,756	124,172	111,319
South Carolina	51,200	42.70	36.20	145,703	123,498	56,943	44,639	202,646	168,137
South Carolina	88,321	19.92	19.55	67,973	66,709	35,608	41,486	103,581	108,195
Tennessee	62,950	19.64	19.48	67,026	66,473	63,018	54,805	130,044	121,278

Appendix A-1 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

111 Selected Properties
Up to 150 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Tennessee	41,819	30.62	23.24	104,475	79,303	46,357	40,601	150,832	119,904
Tennessee	55,887	28.53	25.01	97,329	84,764	92,436	88,952	189,765	173,716
Tennessee	68,612	23.46	20.58	80,046	70,252	47,855	44,708	127,901	114,960
Tennessee	57,354	23.11	19.43	78,866	66,307	121,682	150,190	200,548	216,497
Tennessee	53,811	20.88	19.11	71,251	65,214	167,698	135,613	238,949	200,828
Tennessee	47,105	22.12	20.68	75,469	70,580	144,974	137,465	220,443	208,045
Texas	18,688	14.59	15.31	49,790	52,268	64,860	79,371	105,852	131,639
Texas	281779	16.15	15.90	55,106	54,275	64,422	79,043	119,528	133,318
Texas	28,031	14.73	16.52	50,273	56,378	56,033	60,254	106,306	116,632
Texas	37,375	24.11	24.16	82,271	82,436	56,229	49,530	138,500	131,966
Texas	37,375	18.30	17.90	62,455	61,080	62,103	59,911	124,558	120,991
Texas	37,375	22.94	19.55	78,288	66,730	53,228	51,941	131,516	118,671
Texas	53,804	26.91	25.94	91,800	88,515	60,906	54,271	152,706	142,786
Texas	38,123	25.12	19.86	87,710	67,767	44,179	56,716	129,889	124,483
Texas	38,123	19.92	20.74	67,975	70,773	57,356	51,813	125,330	122,587
Texas	38,870	18.39	20.13	62,733	68,700	36,081	48,119	98,814	116,819
Texas	38,870	19.45	12.17	66,352	41,540	39,680	41,569	106,032	83,109
Texas	38,870	18.28	13.92	62,363	47,524	35,241	39,680	97,605	87,204
Texas	39,618	20.10	29.34	68,590	100,128	36,896	15,826	105,485	115,954
Texas	41,113	24.81	21.06	84,667	71,801	51,153	56,210	135,820	128,091
Texas	41,860	21.18	22.81	72,251	77,851	54,000	55,972	126,251	133,823
Texas	91,602	17.98	19.15	61,340	65,348	47,433	57,562	108,773	122,910
Texas	45,223	19.67	13.67	67,123	44,617	56,903	55,385	124,026	100,002
Texas	45,598	17.80	16.71	60,736	57,045	41,386	38,666	102,122	95,711

Appendix A-1 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

111 Selected Properties
Up to 150 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Texas	45,598	17.85	19.29	60,903	65,850	39,682	41,214	100,585	107,064
Texas	47,466	23.50	19.91	80,181	67,944	18,260	20,922	98,441	88,866
Texas	47,840	15.38	15.10	52,465	51,540	77,145	75,474	129,610	127,014
Texas	48,214	23.02	16.12	78,528	55,007	57,964	30,509	136,492	85,517
Texas	48,214	24.19	22.58	82,539	77,073	74,502	67,905	157,041	144,978
Texas	48,588	25.16	25.27	85,853	86,255	37,235	47,359	123,088	133,614
Virginia	62,584	35.72	30.58	121,877	104,332	80	36	121,957	104,369
W. Virginia	46,000	35.64	38.29	121,616	130,650	-0-	-0-	121,616	130,650
W. Virginia	47,860	26.84	21.68	91,578	73,984	84,026	71,126	175,604	145,110
W. Virginia	48,860	23.55	29.88	80,353	101,955	100,583	81,897	180,936	183,852
W. Virginia	56,201	22.05	20.14	75,235	68,732	72,052	61,548	147,287	130,280
W. Virginia	59,720	15.65	15.02	53,364	51,240	126,030	98,975	179,394	150,215
W. Virginia	65,924	25.69	22.62	87,654	77,171	126,494	130,029	214,148	207,200
Wisconsin	77,000	22.31	21.00	76,122	71,784	54,777	68,906	130,899	140,690
Wisconsin	62,791	17.15	17.30	58,512	59,055	87,512	82,829	146,025	141,883

Recap: 111 properties - Up to 150 Rooms

	1978	versus	1979
Total Square Feet	6,072,249		6,155,505
Number of Guest Rooms	12,895		13,070
Btu's/Sq Ft/Yr	152,871		136,685

Note: During 1979, several properties had additions to interior area.

Appendix A-2

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

65 Selected Properties
151 - 200 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Alabama	84,214	24.99	31.39	85,266	107,108	45,845	43,205	131,111	150,313
Alabama	72,745	27.92	27.13	95,279	92,564	74,877	73,105	170,156	165,669
Arizona	75,353	21.91	20.95	74,762	71,497	86,898	77,766	161,660	149,263
California	105,399	16.43	20.05	56,075	68,409	53,397	58,122	109,472	126,531
California	101,006	21.53	18.30	73,465	62,446	159,426	148,473	232,891	210,919
California	77,309	17.87	17.86	60,959	60,959	92,291	83,043	153,250	144,002
California	95,646	17.99	11.17	61,382	38,114	51,892	50,701	113,274	88,815
Colorado	94,846	16.01	13.01	54,625	44,378	103,483	110,887	158,108	155,265
Colorado	183,000	8.69	8.10	29,645	27,646	90,286	88,863	119,931	116,509
Florida	66,872	27.12	28.06	92,545	95,755	155,386	61,198	247,931	156,953
Florida	76,200	35.41	32.68	120,819	111,537	11,136	10,748	131,955	122,285
Georgia	65,559	24.55	20.30	83,777	69,298	56,251	54,998	140,028	124,295
Georgia	116,366	16.61	19.34	56,684	65,990	42,074	48,851	98,758	114,841
Illinois	84,017	19.91	17.90	67,933	61,106	193,098	167,866	261,031	228,972
Illinois	110,890	24.35	22.00	83,082	75,064	53,316	112,858	136,398	187,922
Indiana	80,347	21.19	19.78	72,285	67,504	104,347	92,671	176,632	160,175
Indiana	83,216	15.22	13.78	51,937	47,033	121,960	117,143	173,897	164,176
Kentucky	73,695	33.20	29.44	113,278	100,455	-0-	-0-	113,278	100,455
Kentucky	66,000	18.52	15.26	63,190	52,085	130,652	122,227	193,842	174,312
Kentucky	177,949	21.72	19.10	74,109	65,549	71,872	55,531	145,981	121,080
Louisiana	68,575	33.37	30.76	113,858	104,965	73,588	77,098	187,446	182,062
Louisiana	98,023	32.25	30.75	110,037	104,904	66,138	61,251	176,175	166,155
Michigan	88,374	21.14	19.49	72,121	66,523	102,168	87,460	174,289	153,983
Michigan	85,438	18.11	16.02	61,776	54,660	102,402	92,933	164,178	147,592

Appendix A-2 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

65 Selected Properties
151 - 200 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Michigan	59,486	18.85	19.58	64,333	66,811	148,321	141,721	212,654	208,531
Minnesota	84,143	18.53	20.37	63,209	69,519	67,302	68,455	130,511	137,974
Minnesota	82,386	9.67	9.38	32,994	32,018	147,383	134,997	180,377	167,014
Minnesota	103,000	24.43	24.60	83,355	83,941	101,502	104,436	184,857	188,377
Minnesota	107,574	11.26	11.58	38,436	39,520	96,910	105,638	135,346	145,158
Mississippi	72,776	23.18	20.71	79,090	70,662	92,737	82,994	171,827	153,656
Missouri	108,655	24.78	22.27	84,557	75,993	87,257	82,997	171,815	158,990
Missouri	105,180	16.98	15.67	57,944	53,467	91,291	69,852	149,235	123,319
Missouri	97,884	27.71	25.65	94,548	87,531	86,858	86,863	181,406	174,394
Nevada	66,357	13.82	13.92	47,172	47,511	120,861	121,562	168,033	169,073
New York	80,998	27.37	21.34	93,386	72,814	56,729	45,696	150,115	118,510
New York	74,596	13.36	11.10	45,584	37,878	154,451	134,114	200,035	171,992
New York	83,871	30.73	27.96	104,851	95,419	48,185	38,052	153,036	133,471
North Carolina	84,561	39.32	40.37	134,160	137,745	62,304	40,882	196,464	178,627
Ohio	74,238	27.00	25.40	92,137	86,713	53,271	47,979	145,408	134,692
Ohio	88,838	22.98	22.32	78,408	76,189	71,994	63,232	150,402	139,421
Ohio	95,500	38.51	41.30	131,403	140,932	-0-	-0-	131,403	140,932
Oklahoma	86,314	30.92	24.54	105,499	83,756	91,004	74,414	196,503	158,170
South Carolina	58,266	22.42	19.25	76,513	65,697	142,708	112,879	219,221	178,576
South Carolina	88,789	29.82	27.44	101,758	93,642	73,184	44,733	174,943	138,375
South Carolina	118,079	16.02	15.37	54,691	52,452	69,393	67,819	124,084	120,271
Tennessee	71,577	26.87	25.32	91,696	86,395	114,408	125,403	206,104	211,798
Tennessee	71,978	24.73	25.48	84,379	86,938	71,558	72,233	155,937	159,171
Tennessee	101,606	21.71	17.62	74,075	60,123	98,481	87,998	172,556	148,111

Appendix A-2 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

65 Selected Properties
151 - 200 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Tennessee	90,838	22.53	21.68	76,866	73,966	66,899	59,980	143,756	133,946
Tennessee	77,406	31.38	29.03	107,064	99,059	53,949	48,603	161,013	147,663
Texas	62,707	29.61	24.88	98,968	84,899	62,752	68,342	161,720	153,241
Texas	62,790	21.61	34.20	73,737	116,718	23,894	14,032	97,631	130,750
Texas	90,604	22.89	21.34	78,088	72,801	69,268	64,379	147,356	137,180
Texas	59,897	43.50	40.76	148,472	139,067	42,824	46,046	191,296	185,113
Texas	73,907	20.91	19.63	71,359	66,978	90,505	100,597	161,865	167,575
Texas	93,572	16.61	13.99	56,679	47,753	46,050	41,893	102,729	89,646
Texas	78,412	20.72	20.08	70,701	68,534	72,859	78,903	143,560	147,438
Texas	81,250	22.83	22.65	77,890	77,311	70,844	71,747	148,735	149,058
Texas	113,282	18.24	16.48	62,224	56,233	59,727	53,918	121,951	110,152
Texas	111,423	13.25	11.83	45,209	40,379	65,308	65,499	110,517	105,878
Virginia	65,032	23.30	21.72	79,530	74,119	103,365	89,187	182,879	163,306
West Virginia	77,377	22.03	20.92	75,166	71,395	66,467	55,354	141,633	126,749
Wisconsin	115,887	9.88	9.45	33,710	32,240	100,540	86,766	134,250	119,006
Wisconsin	134,601	18.23	16.89	62,191	57,651	95,422	93,369	157,614	151,020
Wisconsin	181,464	11.12	10.10	37,929	34,488	124,526	77,618	162,455	112,106

Recap: 65 properties - 201 to 300 Rooms

	1978	versus	1979
Total Square Feet	5,768,769		5,867,640
Number of Guest Rooms	11,393		11,484
Btu's/Sq Ft/Yr	157,572		144,848

Appendix A-3

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

65 Selected Properties
201 - 300 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Alabama	87,058	24.03	20.57	81,978	70,186	34,873	56,135	116,851	126,321
Alabama	130,208	18.57	18.47	63,359	63,037	47,616	53,386	110,975	116,423
Alabama	101,157	22.96	20.68	78,324	70,583	43,536	41,480	121,860	112,063
Alaska	137,104	17.77	16.70	60,643	56,960	99,659	89,542	160,302	146,502
Arkansas	103,470	27.79	23.78	94,810	81,140	81,879	79,592	176,689	157,732
Arkansas	148,003	20.35	17.78	69,428	60,677	56,546	52,039	125,974	112,716
California	109,325	14.51	14.80	49,499	50,500	24,560	37,856	74,059	88,356
California	83,959	17.51	17.20	59,739	58,715	63,209	66,238	122,948	124,953
California	118,792	22.22	18.50	75,815	63,201	78,701	64,345	154,516	127,546
California	104,280	17.05	16.75	58,169	57,184	45,023	46,053	103,192	103,237
California	144,716	26.07	26.20	88,951	89,404	57,160	59,972	146,111	149,377
California	152,060	16.11	15.59	54,967	53,206	61,909	59,903	116,876	113,109
Dist of Columbia	124,338	31.64	32.56	107,954	111,092	-0-	-0-	107,954	111,092
Florida	119,548	30.68	30.25	104,693	103,238	63,196	54,122	167,889	157,360
Florida	107,709	33.35	30.77	113,800	104,993	43,033	12,949	156,833	117,942
Florida	99,152	25.56	28.12	87,213	95,954	70,407	68,335	157,620	164,289
Florida	105,280	22.86	19.86	78,001	67,764	54,416	39,849	132,418	107,614
Florida	148,592	27.21	28.00	92,841	95,537	40,537	37,670	133,378	133,207
Florida	107,291	23.13	22.79	78,912	77,777	59,725	54,265	138,637	132,041
Hawaii	90,318	32.41	33.24	110,575	113,423	30,160	42,703	140,735	156,126
Idaho	153,315	38.01	31.88	129,690	108,786	-0-	-0-	129,090	108,786
Illinois	134,268	21.68	23.76	73,978	81,073	79,452	80,324	153,430	161,396
Illinois	132,632	22.63	22.51	77,204	61,691	103,731	103,730	180,935	175,422
Illinois	121,223	23.23	22.51	79,272	76,817	83,119	67,961	162,392	144,778

Appendix A-3 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

65 Selected Properties
201 - 300 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Total Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Illinois	107,313	18.39	17.13	62,760	58,452	188,188	176,874	250,948	235,326
Indiana	129,117	18.64	18.13	63,604	61,891	117,607	107,362	181,211	169,253
Louisiana	76,768	28.31	28.50	96,594	97,255	52,587	53,564	149,181	150,820
Louisiana	127,990	29.87	27.42	101,931	93,589	57,418	56,707	159,350	150,297
Maryland	113,043	13.75	12.64	46,915	43,132	149,022	96,487	195,937	139,619
Massachusetts	160,885	22.71	21.66	77,487	73,905	79,445	75,195	156,932	149,100
Michigan	94,947	15.70	12.71	53,576	43,367	94,379	72,859	147,955	116,225
Michigan	114,813	20.13	20.58	68,684	70,219	100,938	95,241	169,622	165,460
Michigan	123,985	16.69	16.51	56,952	56,341	72,122	66,557	129,074	122,898
Mississippi	91,746	35.35	33.15	120,614	113,131	64,611	67,377	185,221	180,508
Mississippi	116,119	25.68	23.11	87,620	78,870	86,110	82,290	173,730	161,160
Missouri	124,410	16.34	12.93	55,750	44,122	94,518	75,042	150,268	119,164
Missouri	137,418	20.65	18.16	70,442	61,986	84,982	90,839	155,424	152,825
Missouri	90,022	18.86	17.00	64,350	58,055	146,320	121,870	210,670	179,925
Missouri	90,964	15.83	14.78	53,998	50,457	153,203	157,897	207,201	208,353
Nevada	95,689	22.13	20.72	75,497	70,715	36,221	34,408	111,719	105,123
Nevada	152,763	19.93	16.62	68,001	56,735	87,833	57,972	155,834	114,707
New Mexico	157,686	15.68	15.26	53,495	52,093	49,117	55,145	102,612	107,238
New York	113,170	31.04	30.80	105,908	105,118	14,727	13,988	120,635	119,106
New York	124,483	16.15	17.55	55,093	59,911	66,274	75,202	121,367	135,113
New York	160,826	36.54	32.18	124,674	109,830	-0-	-0-	124,674	109,830
Ohio	109,362	22.38	19.31	76,361	65,915	131,432	105,276	207,793	171,191
Ohio	120,668	18.12	16.36	61,825	55,850	96,038	94,098	157,863	149,948
Ohio	126,902	14.06	14.80	47,966	50,504	95,633	102,153	143,599	152,657

Appendix A-3 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

65 Selected Properties
201 - 300 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft)		Electricity (Btu/Sq Ft)		Fossil Fuel (Btu/Sq Ft)		Btu/Sq Ft	
		1978	1979	1978	1979	1978	1979	1978	1979
Ohio	144,157	18.64	17.20	63,583	58,717	46,061	50,188	109,644	108,905
Oklahoma	150,375	27.32	24.68	93,228	84,223	3,125	3,180	96,353	87,403
Pennsylvania	156,211	12.48	10.87	42,568	37,095	163,465	98,316	206,033	135,411
South Carolina	83,268	31.91	28.55	108,882	97,416	70,255	66,232	179,137	163,648
Tennessee	84,557	27.22	24.43	92,872	83,358	74,884	71,195	167,756	154,552
Tennessee	95,738	24.78	24.90	84,549	84,992	56,566	61,950	141,115	146,942
Tennessee	121,559	17.07	15.29	58,257	52,194	58,943	53,877	117,200	106,072
Tennessee	121,400	15.53	13.45	52,990	45,905	50,725	50,353	103,715	96,258
Tennessee	92,750	32.38	26.76	110,500	91,316	33,423	36,301	143,923	127,617
Tennessee	122,588	22.62	19.44	77,176	66,332	59,239	61,967	136,415	128,299
Tennessee	138,981	26.19	22.88	89,360	78,084	45,236	40,147	134,596	118,231
Tennessee	118,842	25.05	23.88	85,454	81,483	41,845	78,555	127,299	160,038
Texas	88,186	26.07	23.97	88,947	81,800	84,265	76,610	173,212	158,410
Texas	132,168	16.17	15.93	55,186	54,385	60,194	53,591	115,380	107,976
Texas	171,205	18.02	16.90	61,484	57,636	93,083	88,742	154,567	146,378
West Virginia	161,144	18.06	19.00	61,628	64,855	151,281	155,431	212,909	220,286
Wisconsin	155,084	12.82	16.60	43,729	56,656	75,572	90,674	119,301	147,330

Recap: 65 Properties - 201 to 300 Rooms

	1978	versus	1979
Total Square Feet	7,863,100		7,857,101
No. of Guest Rooms	15,798		15,526
Btu/Sq Ft/Yr	146,132		137,900

Appendix A-4

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

26 Selected Properties
301 to 500 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft) 1978	Electricity (Kwh/Sq Ft) 1979	Electricity (Btu/Sq Ft) 1978	Electricity (Btu/Sq Ft) 1979	Fossil Fuel (Btu/Sq Ft) 1978	Fossil Fuel (Btu/Sq Ft) 1979	Total Btu/Sq Ft 1978	Total Btu/Sq Ft 1979
California	195,058	14.03	12.39	47,667	42,778	60,367	61,912	108,234	104,690
California	256,608	9.88	9.86	33,695	33,671	50,984	46,002	84,679	79,673
California	300,434	11.79	10.39	40,217	35,481	69,739	67,207	109,956	102,688
California	192,812	19.32	19.91	65,935	67,953	15,393	17,813	81,328	85,766
Connecticut	205,703	33.04	27.57	112,725	94,081	-0-	-0-	112,725	94,081
Florida	131,870	24.79	22.59	84,583	77,084	72,552	57,609	157,135	134,692
Florida	179,419	33.51	34.33	114,345	117,144	45,725	49,422	160,070	166,566
Illinois	149,287	46.69	45.44	159,299	155,046	2,733	18,809	162,032	173,855
Illinois	420,042	26.08	22.77	88,985	77,706	22,797	22,312	111,782	100,018
Illinois	330,900	11.99	13.81	40,937	47,134	81,892	76,204	122,929	123,338
Illinois	281,704	24.92	27.91	85,037	95,526	51,966	62,863	137,003	158,389
Minnesota	265,000	15.60	14.77	53,232	50,399	173,101	172,814	226,333	223,213
Minnesota	422,600	22.95	22.28	78,305	76,049	138,147	127,730	216,452	203,779
Minnesota	433,000	12.64	11.09	43,128	37,842	60,157	61,473	103,285	99,315
Nebraska	323,152	10.61	10.01	36,201	34,172	82,426	40,665	118,627	74,837
New York	322,000	18.97	18.36	64,720	62,645	13,062	11,300	77,782	73,945
Ohio	165,974	25.36	24.18	86,528	82,518	84,570	77,184	171,098	159,702
Ohio	317,000	15.76	17.01	53,784	58,045	134,748	129,429	188,532	187,474
Ohio	263,400	19.03	19.44	64,930	66,338	135,312	119,550	200,242	185,888
Oregon	304,965	17.44	16.89	59,505	57,641	104,238	84,431	163,743	142,072
Pennsylvania	322,295	19.20	18.36	65,510	62,640	75,350	54,453	140,860	117,093
South Carolina	277,000	26.70	24.33	91,100	83,029	38,606	13,585	129,706	96,614
Tennessee	144,547	22.06	20.59	75,264	70,274	62,672	61,327	137,936	131,601
Texas	163,206	21.50	20.18	73,353	68,840	49,698	42,389	123,051	111,229

Appendix A-4 (Cont'd)

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

26 Selected Properties
301 to 500 Rooms

Location (State)	Property Size (Sq Ft)	(Kwh/Sq Ft) 1978	(Kwh/Sq Ft) 1979	(Btu/Sq Ft) 1978	(Btu/Sq Ft) 1979	Fossil Fuel (Btu/Sq Ft) 1978	Fossil Fuel (Btu/Sq Ft) 1979	Total Btu/Sq Ft 1978	Total Btu/Sq Ft 1979
Texas	203,855	16.87	23.63	57,560	81,333	57,272	75,567	114,832	156,900
Virginia	257,568	8.60	8.94	29,339	30,513	155,904	125,307	185,243	155,820

Recap: 26 Properties - 301 to 500 Rooms

	1978	versus	1979
Total Square Feet	6,829,399		6,829,429
No. of Guest Rooms	10,187		10,172
Btu/Sq Ft/Yr	139,812		134,784

Appendix A-5

ANNUAL ENERGY REQUIREMENTS - 1979
With Comparison to 1978 Energy Use

17 Selected Properties
Over 500 Rooms

Location (State)	Property Size (Sq Ft)	Electricity (Kwh/Sq Ft) 1978	Electricity (Kwh/Sq Ft) 1979	Electricity (Btu/Sq Ft) 1978	Electricity (Btu/Sq Ft) 1979	Fossil Fuel (Btu/Sq Ft) 1978	Fossil Fuel (Btu/Sq Ft) 1979	Total Btu/Sq Ft 1978	Total Btu/Sq Ft 1979
California	257,855	18.58	20.23	63,395	69,048	58,995	64,094	122,390	133,142
California	334,804	12.64	12.68	43,120	43,267	51,245	54,071	94,365	97,338
California	1,186,000	16.89	15.42	57,629	52,622	79,984	67,906	137,613	120,528
Georgia	1,170,600	24.71	23.90	84,311	81,679	31,704	39,650	116,015	121,329
Hawaii	233,626	26.65	27.07	90,940	92,376	57,057	51,671	147,997	144,047
Illinois	344,557	36.18	33.57	123,464	114,556	12,625	12,725	136,089	127,281
Illinois	1,750,000	13.01	11.99	44,390	40,938	170,262	144,778	214,652	185,716
Louisiana	969,699	26.01	30.67	110,638	104,655	56,043	63,522	166,681	168,177
Massachusetts	970,000	15.03	14.21	51,275	48,503	174,211	165,823	225,486	214,326
Minnesota	407,000	13.06	13.35	44,561	45,568	202,115	210,501	246,676	256,069
Nevada	263,274	20.04	19.56	68,387	66,751	48,208	50,093	116,595	116,844
Nevada	2,388,361	25.14	23.36	85,778	79,722	69,000	66,484	154,778	146,207
New York	1,626,000	14.05	13.46	47,939	45,957	96,781	93,003	144,720	138,960
Pennsylvania	487,000	11.28	11.80	38,487	40,414	127,080	125,932	165,567	166,347
Pennsylvania	566,660	13.38	13.27	45,682	45,291	65,421	73,006	111,103	118,297
Tennessee	543,017	16.49	15.19	56,270	51,830	41,481	38,952	97,751	90,782
Texas	593,807	17.85	30.61	60,904	104,442	295,182	142,176	356,086	246,618

Recap: 17 Properties - Over 500 Rooms

	1978	versus	1979
Total Square Feet	13,873,836		14,092,260
No. of Guest Rooms	18,638		19,116
Btu/Sq Ft/Yr	162,438		154,643

APPENDIX B

ANNUAL ENERGY REQUIREMENTS - 1979
OF
284 HOTELS/MOTELS

BY GEOGRAPHICAL LOCATION

Appendix B-1: Northeastern U.S. (26 properties)

Appendix B-2: Midwestern U.S. (77 properties)

Appendix B-3: Southeastern U.S. (69 properties)

Appendix B-4: South Central U.S. (53 properties)

Appendix B-5: Rocky Mountain States (22 properties)

Appendix B-6: Pacific Coast States (37 properties)

Appendix B-1

Annual Energy Requirements (1979)
26 Hotels/Motels

Northeastern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Connecticut	205,703	19,352	-0-	19,352	94,081
Dist of Columbia	65,375	8,051	-0-	8,051	123,146
Dist of Columbia	124,338	13,813	-0-	13,813	111,092
Maryland	54,274	3,590	5,344	8,934	164,605
Maryland	113,043	4,876	10,907	15,783	139,619
Massachusetts	51,880	2,136	6,778	8,914	171,827
Massachusetts	59,516	4,111	5,957	10,068	169,171
Massachusetts	160,885	11,890	12,098	23,988	149,100
Massachusetts	970,000	47,048	160,848	207,896	214,326
New Hampshire	103,692	2,556	8,610	11,166	107,656
New Hampshire	69,088	3,536	4,137	7,673	111,664
New York	84,484	3,921	5,782	9,703	114,847
New York	87,130	4,067	7,443	11,511	132,110
New York	80,998	5,398	3,701	9,599	118,510
New York	74,596	2,826	10,004	12,830	171,992
New York	83,871	8,003	3,192	11,195	133,471
New York	113,170	11,896	1,583	13,479	119,106
New York	124,483	7,458	9,361	16,819	135,113
New York	160,826	17,663	-0-	17,663	109,830
New York	322,000	201,171	3,639	23,810	73,945
New York	1,626,000	74,726	151,223	225,949	138,960
Pennsylvania	72,713	5,193	4,888	10,081	138,646
Pennsylvania	156,211	5,795	15,358	21,153	135,411
Pennsylvania	322,295	20,188	17,550	37,738	117,094
Pennsylvania	487,000	19,681	61,329	81,010	166,347
Pennsylvania	566,660	25,661	41,365	67,026	118,297
Totals	6,340,231	354,107	551,097	905,204	

Average Btu/Sq Ft
26 properties: 142,771

Appendix B-2

Annual Energy Requirements (1979)
69 Hotels/Motels

Midwestern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Illinois	84,017	5,134	14,104	19,238	228,972
Illinois	110,890	8,324	12,515	20,839	187,922
Illinois	132,632	9,509	13,758	23,267	175,422
Illinois	134,269	10,885	10,785	21,670	161,396
Illinois	121,223	9,312	8,238	17,550	144,778
Illinois	107,313	6,273	18,981	25,254	235,326
Illinois	149,287	23,146	28,080	51,226	173,855
Illinois	420,042	32,639	9,372	42,011	100,018
Illinois	330,900	15,596	25,216	40,812	123,338
Illinois	281,704	26,910	17,709	44,619	158,389
Illinois	344,557	39,471	4,384	43,855	127,281
Illinois	1,750,000	71,641	253,362	325,003	185,716
Indiana	138,598	11,724	11,482	23,206	167,437
Indiana	80,347	5,424	7,446	12,870	160,175
Indiana	83,216	3,914	9,748	13,662	164,176
Indiana	129,117	7,991	13,862	21,853	169,253
Michigan	42,030	2,019	7,688	9,707	230,938
Michigan	59,268	3,796	8,487	12,283	207,234
Michigan	77,110	4,895	7,836	12,731	165,104
Michigan	88,374	5,879	7,729	13,608	153,983
Michigan	85,438	4,670	7,940	12,610	147,582
Michigan	59,486	3,974	8,430	12,404	208,531
Michigan	95,947	4,118	6,917	11,035	116,225
Michigan	114,813	8,062	10,935	18,997	165,460
Michigan	123,985	6,985	8,252	15,237	122,898
Minnesota	69,189	3,385	7,941	11,326	163,637
Minnesota	61,020	3,189	11,695	14,885	243,911
Minnesota	84,143	5,850	5,760	11,610	137,974
Minnesota	82,386	2,638	11,121	13,760	167,014
Minnesota	103,000	8,646	10,757	19,403	188,377
Minnesota	107,574	4,251	11,364	15,615	145,158
Minnesota	265,000	13,356	45,796	59,152	223,213

Appendix B-2 (Cont'd)

Annual Energy Requirements (1979
69 Hotels/Motels

Midwestern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Minnesota	422,600	32,138	53,979	86,117	203,779
Minnesota	433,000	16,385	26,618	43,003	99,315
Minnesota	407,000	18,546	85,674	104,220	256,069
Missouri	108,655	8,257	9,018	17,275	158,990
Missouri	105,180	5,624	7,347	12,971	123,319
Missouri	97,884	8,568	8,503	17,071	174,394
Missouri	90,022	5,226	10,971	16,197	179,925
Missouri	90,964	4,590	14,363	18,953	208,353
Missouri	124,410	5,489	9,336	14,825	119,164
Missouri	137,418	8,518	12,483	21,001	152,825
Nebraska	323,152	11,042	13,141	24,183	74,837
Ohio	54,735	4,350	4,240	8,590	156,926
Ohio	48,860	4,081	4,008	8,089	165,416
Ohio	57,200	4,290	2,660	6,950	121,495
Ohio	95,278	7,159	6,128	13,287	139,456
Ohio	61,575	3,940	4,193	8,133	132,086
Ohio	53,818	2,171	9,699	11,870	220,556
Ohio	55,262	3,594	7,540	11,134	201,474
Ohio	86,139	3,076	10,366	13,442	156,047
Ohio	75,884	5,902	6,445	12,347	162,712
Ohio	72,000	8,587	2,878	11,465	159,240
Ohio	74,238	6,437	3,562	9,999	134,692
Ohio	88,838	6,769	5,617	12,386	139,421
Ohio	95,500	13,458	-0-	13,458	140,932
Ohio	109,362	7,209	11,513	18,722	171,191
Ohio	120,668	6,739	11,355	18,094	149,948
Ohio	126,902	6,409	12,963	19,372	152,657
Ohio	144,157	8,464	7,235	15,699	108,905
Ohio	165,974	13,695	12,811	26,506	159,699
Ohio	317,000	18,400	41,029	59,429	187,474
Ohio	263,400	17,473	31,490	48,963	185,888
Wisconsin	77,000	5,527	5,306	10,833	140,690

Appendix B-2 (Cont'd)

Annual Energy Requirement (1979)
69 Hotels/Motels

Midwestern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Wisconsin	62,791	3,708	5,201	8,909	141,883
Wisconsin	115,387	3,720	10,012	13,732	119,006
Wisconsin	134,601	7,760	12,568	20,328	151,020
Wisconsin	181,464	6,258	14,085	20,343	112,106
Wisconsin	155,084	8,787	14,062	22,849	147,330
Totals	11,149,277	685,952	1,146,089	1,832,041	

Average Btu/Sq Ft
69 properties: 164,319

Appendix B-3

Annual Energy Requirements (1979)
77 Hotels/Motels

Southeastern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Alabama	72,745	6,734	5,318	12,052	165,669
Alabama	84,214	9,020	3,639	12,659	150,313
Alabama	87,058	6,110	4,887	10,997	126,321
Alabama	130,208	8,208	6,951	15,159	116,423
Alabama	101,157	7,140	4,196	11,336	112,063
Florida	55,448	5,014	2,319	7,333	132,249
Florida	59,247	4,731	825	5,556	93,779
Florida	48,250	5,623	516	6,139	127,226
Florida	145,400	9,504	8,245	17,749	122,069
Florida	66,872	6,403	4,092	10,495	156,953
Florida	76,200	8,499	819	9,318	122,285
Florida	119,548	12,341	6,470	18,811	157,360
Florida	107,709	11,308	1,395	12,703	117,942
Florida	99,152	9,514	6,776	16,290	164,389
Florida	105,280	7,134	4,195	11,329	107,614
Florida	148,592	14,196	5,597	19,793	133,207
Florida	51,888	4,324	3,212	7,535	146,642
Florida	101,291	8,345	5,822	14,167	132,041
Florida	131,870	10,165	7,597	17,762	134,693
Florida	179,419	21,017	8,867	29,884	166,566
Georgia	116,366	7,679	5,685	13,364	114,841
Georgia	65,599	4,543	3,606	8,149	124,295
Georgia	1,170,600	95,614	46,414	142,028	121,329
Kentucky	37,928	3,938	3,355	7,293	192,295
Kentucky	48,961	5,182	-0-	5,182	105,842
Kentucky	55,151	4,485	3,539	8,024	145,492
Kentucky	73,695	7,403	-0-	7,403	100,455
Kentucky	66,000	3,438	8,067	11,505	174,312
Kentucky	177,949	7,883	6,149	14,032	121,080
Mississippi	37,749	2,724	1,603	4,327	114,643
Mississippi	72,776	5,142	6,040	11,182	153,656
Mississippi	91,746	10,379	6,182	16,561	180,508

Appendix B-3 (Cont'd)

Annual Energy Requirements (1979)
77 Hotels/Motels

Southeastern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Mississippi	116,119	9,158	9,555	18,713	161,160
North Carolina	44,780	3,440	5,817	9,257	206,713
North Carolina	53,050	3,400	7,412	10,812	203,795
North Carolina	84,561	11,647	3,457	15,104	178,627
South Carolina	36,200	3,496	534	4,030	111,709
South Carolina	88,321	5,892	3,664	9,556	108,195
South Carolina	51,200	6,323	2,286	8,609	168,137
South Carolina	58,266	3,828	6,577	10,405	178,576
South Carolina	88,789	8,314	3,972	12,286	138,375
South Carolina	118,079	6,193	8,008	14,201	120,271
South Carolina	83,268	8,112	5,515	13,627	163,648
South Carolina	277,000	22,999	3,763	26,762	96,614
Tennessee	62,950	4,184	3,450	7,634	121,278
Tennessee	41,819	3,316	1,698	5,014	119,904
Tennessee	55,887	4,737	4,971	9,708	173,716
Tennessee	68,612	4,820	3,068	7,888	114,960
Tennessee	57,354	3,803	8,614	12,417	216,497
Tennessee	53,811	3,509	7,298	10,807	200,828
Tennessee	47,105	3,325	6,475	9,800	208,045
Tennessee	71,577	6,183	8,976	15,159	211,798
Tennessee	71,978	6,258	5,199	11,457	159,171
Tennessee	101,606	6,109	8,940	15,049	148,111
Tennessee	90,838	6,719	5,449	12,168	133,946
Tennessee	77,406	7,668	3,762	11,430	147,663
Tennessee	84,557	7,049	6,020	13,069	154,552
Tennessee	95,738	8,137	5,931	14,068	146,942
Tennessee	121,559	6,345	6,549	12,894	106,072
Tennessee	121,400	5,573	6,113	11,686	96,258
Tennessee	92,750	8,470	3,367	11,837	127,617
Tennessee	122,588	8,131	7,596	15,727	128,299
Tennessee	138,981	10,852	5,580	16,432	118,231
Tennessee	118,842	9,684	9,336	19,020	160,038

Appendix B-3 (Cont'd)

Annual Energy Requirements (1979)
77 Hotels/Motels

Southeastern U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Tennessee	144,547	10,158	8,865	19,023	131,597
Tennessee	543,017	28,144	21,152	49,296	90,782
Virginia	62,584	6,530	2	6,532	104,369
Virginia	65,032	4,820	5,800	10,620	163,312
Virginia	257,568	7,859	32,275	40,134	155,820
West Virginia	46,000	6,010	-0-	6,010	130,650
West Virginia	47,860	3,541	3,404	6,945	145,110
West Virginia	48,860	4,982	4,002	8,984	183,852
West Virginia	56,201	3,863	3,459	7,322	130,280
West Virginia	59,720	3,060	5,911	8,971	150,215
West Virginia	65,924	5,087	8,572	13,659	207,200
West Virginia	77,377	5,524	4,283	9,807	126,749
West Virginia	161,144	10,450	25,047	35,497	220,286
Totals	8,418,893	651,444	484,102	1,135,546	

Average Btu/Sq Ft
77 properties: 134,881

Appendix B-4

Annual Energy Requirements (1979)
53 Hotels/Motels

South Central U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Arkansas	43,810	4,117	3,480	7,597	173,404
Arkansas	41,860	2,788	1,716	4,503	107,583
Arkansas	103,470	8,396	7,925	16,321	157,732
Arkansas	148,003	8,980	7,702	16,682	112,716
Louisiana	37,749	2,984	2,203	5,187	137,398
Louisiana	55,843	9,531	-0-	9,531	170,675
Louisiana	68,575	7,198	5,287	12,485	182,062
Louisiana	98,023	10,283	6,004	16,287	166,155
Louisiana	76,768	7,466	4,112	11,578	150,820
Louisiana	127,990	11,978	7,258	19,236	150,297
Louisiana	969,699	101,480	61,597	163,077	168,177
Oklahoma	86,314	7,229	6,423	13,652	158,170
Oklahoma	150,375	12,665	478	13,143	87,403
Texas	18,688	977	1,483	2,460	131,639
Texas	28,031	1,580	1,689	3,269	116,621
Texas	28,779	1,562	2,275	3,837	133,318
Texas	37,375	3,081	1,851	4,932	131,966
Texas	37,375	2,283	2,239	4,522	120,991
Texas	37,375	2,494	1,941	4,435	118,671
Texas	53,804	4,762	2,920	7,682	142,786
Texas	38,123	2,583	2,162	4,745	124,483
Texas	38,123	2,698	1,975	4,673	122,587
Texas	38,870	2,670	1,870	4,541	116,819
Texas	38,870	1,615	1,616	3,230	83,109
Texas	38,870	1,847	1,542	3,389	87,204
Texas	39,618	3,966	627	4,593	115,954
Texas	41,113	2,955	2,311	5,266	128,091
Texas	41,860	3,259	2,343	5,602	133,823
Texas	91,602	5,986	5,273	11,259	122,910
Texas	45,223	2,018	2,505	4,522	100,002
Texas	45,598	2,601	1,763	4,364	95,711
Texas	45,593	3,003	1,879	4,882	107,064

Appendix B-4 (Cont'd)

Annual Energy Requirements (1979)
53 Hotels/Motels

South Central U.S.

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Texas	47,466	3,225	993	4,218	88,866
Texas	47,840	2,466	3,611	6,076	127,014
Texas	48,214	2,652	1,471	4,123	85,517
Texas	48,214	3,716	3,274	6,990	144,978
Texas	48,588	4,191	2,301	6,492	133,614
Texas	62,707	5,324	4,286	9,609	153,241
Texas	62,790	7,329	881	8,210	130,750
Texas	90,604	6,596	5,833	12,429	137,180
Texas	59,897	8,330	2,758	11,088	185,113
Texas	73,907	4,950	7,435	12,385	167,575
Texas	93,572	4,468	3,920	8,388	89,646
Texas	78,412	5,374	6,187	11,561	147,438
Texas	81,250	6,282	5,830	12,111	149,058
Texas	113,282	6,370	6,108	12,478	110,152
Texas	111,423	4,499	7,298	11,797	105,878
Texas	88,186	7,214	6,756	13,970	158,410
Texas	132,168	7,188	7,083	14,271	107,976
Texas	171,205	9,868	15,193	25,061	146,378
Texas	163,206	11,235	6,918	18,153	111,228
Texas	203,885	16,582	15,407	31,989	156,900
Texas	593,807	62,018	84,425	146,443	246,618
Totals	5,213,997	436,907	352,417	789,324	

Average Btu/Sq Ft
53 properties: 151,386

Appendix B-5

Annual Energy Requirements (1979)
22 Hotels/Motels

Rocky Mountain States

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Arizona	67,924	3,023	2,443	5,467	80,483
Arizona	57,387	3,459	6,680	10,139	176,685
Arizona	57,714	4,009	5,470	9,479	164,240
Arizona	64,695	6,094	2,696	8,790	135,866
Arizona	71,426	6,119	5,194	11,313	158,384
Arizona	75,353	5,388	5,860	11,248	149,263
Colorado	30,570	1,963	2,184	4,147	135,644
Colorado	89,718	3,405	2,926	6,331	70,562
Colorado	46,704	3,503	2,467	5,970	127,839
Colorado	61,762	3,039	9,952	12,991	210,344
Colorado	41,860	3,015	3,090	6,105	145,854
Colorado	48,588	3,153	3,109	6,262	128,868
Colorado	94,846	4,209	10,517	14,726	155,265
Colorado	183,000	5,059	16,262	21,321	116,509
Idaho	61,972	4,565	4,377	8,942	144,297
Idaho	153,315	16,678	-0-	16,678	108,786
Nevada	66,357	3,153	8,067	11,220	169,073
Nevada	95,689	6,767	3,293	10,059	105,123
Nevada	152,763	8,667	8,856	17,523	114,707
Nevada	263,274	17,573	13,188	30,761	116,844
Nevada	2,388,361	190,400	158,790	349,190	146,207
New Mexico	157,686	8,214	8,696	16,910	107,238
Totals	4,330,964	311,455	284,117	595,572	

Average Btu/Sq Ft
22 properties: 137,515

Appendix B-6

Annual Energy Requirements (1979)
37 Hotels/Motels

Pacific Coast States

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
Alaska	137,104	7,809	12,277	20,086	146,502
California	28,960	1,680	1,155	2,835	97,915
California	29,800	1,487	887	2,374	79,664
California	29,797	1,055	994	2,048	68,743
California	29,975	1,005	1,552	2,557	85,306
California	31,147	2,053	773	2,826	90,725
California	45,620	1,561	1,695	3,256	71,371
California	46,986	1,935	2,237	4,172	88,799
California	42,931	1,853	2,310	4,163	96,970
California	39,405	1,531	1,225	2,756	69,933
California	48,821	1,861	1,911	3,772	77,273
California	70,883	3,465	4,108	7,573	106,840
California	66,665	3,899	2,744	6,643	99,651
California	63,898	4,325	3,002	7,327	114,663
California	55,684	2,555	2,374	4,928	88,500
California	59,732	3,598	2,871	6,469	108,304
California	76,227	3,369	3,060	6,430	84,348
California	105,399	7,210	6,126	13,336	126,531
California	101,006	6,307	14,997	21,304	210,919
California	77,309	4,713	6,420	11,133	144,002
California	95,646	3,645	4,849	8,494	88,826
California	109,325	5,521	4,139	9,660	88,356
California	83,959	4,930	5,561	10,491	124,953
California	118,792	7,508	7,644	15,151	127,546
California	104,280	5,963	4,802	10,766	103,237
California	144,716	12,938	8,679	21,617	149,376
California	152,060	8,091	9,109	17,199	113,109
California	256,608	8,640	11,805	20,445	79,673
California	195,058	8,246	12,076	20,322	104,184
California	300,434	10,659	18,579	29,238	97,319
California	192,812	13,102	3,435	16,537	85,766
California	257,855	17,804	16,527	34,331	133,142

Appendix B-6 (Cont'd)

Annual Energy Requirements (1979)
37 Hotels/Motels

Pacific Coast States

State	Sq Ft	Btu/Elec (Millions)	Btu/Fossil (Millions)	Total Btu's (Millions)	Btu/Sq Ft
California	334,804	14,485	18,103	32,588	97,338
California	1,186,000	62,409	80,536	142,945	120,528
Hawaii	90,318	10,244	3,857	14,101	156,126
Hawaii	233,626	21,581	12,072	33,653	144,047
Oregon	304,965	17,578	25,749	43,327	142,072
Totals	5,348,607	296,615	320,240	616,855	

Average Btu/Sq Ft
37 properties: 115,330